BTEC Assignment Brief

Qualification	Pearson BTEC International Level 3 Diploma in Agriculture Pearson BTEC International Level 3 Extended Diploma in Agriculture
Unit number and title	Unit 24: Land-based Workshop Practices
Learning aims	**A.** Investigate the requirements for a land-based workshop used for the maintenance and repair of machinery and equipment **B.** Use workshop tools and equipment to complete a preparation task **C.** Carry out workshop maintenance and repair of land-based machinery to meet maintenance schedules
Assignment title	**Workshop Practice**
Assessor	
Issue date	
Hand in deadline	

Vocational Scenario or Context	You are working on a large agricultural enterprise in a supervisory position, the farm has significant amount of small and large scale machinery and equipment, which you are required contribute to the maintenance of. You have been tasked to produce a induction report and then demonstrate practices to new staff members.
Task 1	You are required to produce an illustrated report on the requirements for land-based workshop practices for new staff. Your report should be clear and concise with well-reasoned comments on their relative importance and use, including: • Workshop environment • Materials for use in maintenance and repair • Workshop tools and equipment – fixed and portable • Current law and codes of practice. Your report should include suitable images and diagrams.
Checklist of evidence required	An illustrated report.

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
A.D1	Evaluate the relative importance of the identified requirements for a land-based workshop carrying out maintenance and repair.
A.M1	Analyse the resource and legislative requirements for a land-based workshop used for maintenance and repair.
A.P1	Explain the resource requirements for a land-based workshop used for maintenance and repair.
A.P2	Explain the relevant legislative requirements relating to maintenance and repair in a land-based workshop.
Task 2	You are required to carry out appropriate practical activities to demonstrate knowledge, skills and understanding of the of hand tools, power tools, welding equipment and cutting equipment. You must show evidence of the use of at least: • One hand tool • One power tool • One piece of welding equipment • One cutting tool. Your practical work should be recorded in a suitable logbook and include photographic/ video evidence of the following: • Practical preparation task and the actual maintenance and repair task, showing a high degree of initiative within the limits of their responsibility • Adherence to health and safety when using equipment
Checklist of evidence required	A practical logbook of activities undertaken, observation records.

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
B.D2	Demonstrate highly accurate use of appropriate tools and equipment to carry out a complex preparation task to an agreed specification within an agreed timescale.
B.M2	Demonstrate efficient use of appropriate tools and equipment to carry out a complex preparation task to an agreed specification within an agreed timescale
B.M3	Maintain and store tools and equipment efficiently according to manufacturer's instructions
B.P3	Demonstrate competent use of appropriate tools and equipment to carry out a simple preparation task to an agreed specification.
B.P4	Maintain and store tools and equipment according to manufacturer's instructions.
C.D3	Perform, with a high degree of accuracy, a complex maintenance and repair task, checking and recording maintenance and repair operations carried out
C.M4	Perform maintenance and repair operations proficiently to undertake a complex maintenance and repair task.
C.M5	Demonstrate detailed checking and recording of maintenance and repair operations carried out
C.P5	Competently perform basic maintenance and repair operations on a machine.
C.P6	Competently check and record maintenance and repair operations carried out.

Sources of information to support you with	**Books** John, KC. (2010). *Mechanical Workshop Practice*. 2nd ed.

this Assignment	London: Prentice-Hall of India Pvt.Ltd. Bell, B. (2016). *Farm Machinery*. 6th ed. Ipswich: Old Pond Publishing Ltd. **Journal/Magazine** farmmachineryjournal.co.uk **Websites** fwi.co.uk farmideas.co.uk